Index of Claims

10/697,221

10/697,22 Examiner

Jonathan S. Crepeau

Applicant(s)/Patent under Reexamination

BUSHONG ET AL.

Art Unit

1745

| <b>√</b> | Rejected |
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| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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Restricted

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| ı | Interference |

| A | Appeal   |
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| o | Objected |

| Claim Date        |  |          |  | Claim              |          |  |           |              | Date     |          |  |                     | ]            | Claim    |     |                 |            | Date     |         |            |                 |          |           |          |          |
|-------------------|--|----------|--|--------------------|----------|--|-----------|--------------|----------|----------|--|---------------------|--------------|----------|-----|-----------------|------------|----------|---------|------------|-----------------|----------|-----------|----------|----------|
| -                 | 9  |          |  |                    |          |  | al .      |              |          | $\top$   |  |                     |              |          | 1   |                 | 16         |          |         |            |                 |          |           |          |          |
| Final<br>Original | 90/  |          |  |                    |          | Final  | Original  | 10/          |          |          |  |                     |              |          |     | Final           | Original   |          |         |            |                 |          |           |          |          |
| Prig              | 6  |          |  |                    |          | Ē  | اپتر      | 6            | •        |          |  |                     |              |          |     | ΙĒ              | Ä          |          |         | 1          |                 |          |           |          |          |
|                   |  |          | $\sqcup \bot$                                    | $\bot \bot$        | ╛        | L  |           |              | $\perp$  |          |  | Ш                   |              |          | 1   |                 |            |          | $\perp$ | L          |                 |          |           | $\Box$   | ᅵ        |
| (I)               | ÷  |          | $oxed{oxed}$                                     | $\perp$            | _        |  | 51        | +            |          |          | 上  | Ш                   | $\perp$      |          | 1   | $\perp$         | 101        |          |         | L          |                 |          | Ц         | _        | ᆜ        |
| 2                 |  |          | $\sqcup \bot$                                    | $\perp$            | _        |  | 52        | Ц            | _        | $\bot$   | $\perp$  | $\sqcup$            | $\dashv$     |          | 4   | <u></u>         | 102        |          |         | 丄          |                 |          | $\sqcup$  | $\dashv$ | _        |
| 3                 |  |          |  | $\perp \downarrow$ | 4        |  | <b>63</b> | 11           | _        |          | ╄  |                     | $\downarrow$ | $\perp$  | 4   | $\vdash$        | 103        | _        |         | ┖          |                 | Ц        | Ц         | _        | _        |
| 4                 |  | $\perp$  | $\perp \perp$                                    | 11                 | 4        |  | 54        | 41           |          | _        | $\vdash$   | $\sqcup$            | 4            |          | 4   |                 | 104        | _        | $\bot$  | ┺          |                 |          | $\Box$    | _        | _        |
| 5                 |  | $\dashv$ | $\vdash \vdash$                                  | +                  | 4        | L  | 55        | 41           | -        | _        | 1  | Н                   | -+           | -        | 4   | ļ               | 105        |          | +       | ╄          |                 |          | $\dashv$  |          | _        |
| 6                 |  | -        |  | +                  | -        | $\vdash$   | 56        | Н            |          |          | ┼  | $\vdash$            | $\dashv$     | -        | 4   | <u> </u>        | 106        | $\dashv$ | +       | ╄          | _               |          | $\dashv$  | $\dashv$ | _        |
| 7                 |  | +        | ⊢⊢   | ++                 | 4        | $\vdash$   | 57        | Н            | -        | +        | +  | $\vdash$            | +            | +        | -   |                 | 107        | $\dashv$ |         | ╄          | -               |          | $\dashv$  | $\dashv$ |          |
| 8                 | ++++   | +        | ╁  | ++                 | -        | $\vdash$   | 58<br>59  | +H           |          | +        | ┼-   | -                   | +            | +        | ł., |                 | 108<br>109 | +        | -       | ┼          | H               | Н        | $\dashv$  | $\dashv$ | $\dashv$ |
|                   |  | +        | $\vdash\vdash$                                   | ++                 | - 7      | <u> </u>   | 60        | Н            |          | +        | ╀  | $\vdash$            | +            | +        | 4   | <u> </u>        |            | +        | +-      | ╁          | Н               | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 10<br>11          | ╟┼┼┼┼  |          | -  |                    | $\dashv$ | -  | 61        | $\mathbb{H}$ | $\dashv$ | +        | +  | $\vdash$            | $\dashv$     |          | ₹.  | <u> </u>        | 110<br>111 | +        | +       | ╁          | $\vdash$        | $\vdash$ |           | $\dashv$ | 一        |
| 11                | <del>                                     </del> |          | $\vdash\vdash$                                   | ++                 | -        | $\vdash$   | 62        | +            | $\dashv$ | +        | ╁  | $\vdash$            | +            | +        | 1   | $\vdash$        | 112        | -        | +-      | +-         | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 13                | <del>                                     </del> | +        | ⊢⊢   | +                  | - *      | $\vdash$   | 63        | ₩            | +        | +        | +  | $\vdash \vdash$     | +            | +        | -   |                 | 113        |          | +       | ╁          | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 14                | <del>                                     </del> | +-       | $\vdash\vdash$                                   | +-+                | ⊢-       | -  | 64        | -            | +        | +        | +  | ╁╌┼                 | $\dashv$     | +        | 1   | $\vdash$        | 114        | $\dashv$ | +-      | ╁          | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 15                | <del>                                     </del> | +-       | <del>   -</del>                                  | ++                 | $\dashv$ | $\vdash \vdash$                                  | 65        | $\vdash$     | +        | $\dashv$ | +  | ┥                   | $\dashv$     | +        | 1   | $\vdash$        | 115        | $\dashv$ | +       | +          | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 16                |  | +        | $\vdash\vdash$                                   | 1-1                | ┪        | $\vdash$   | 66        | $\vdash$     | $\dashv$ | +        | +  | $\vdash$            | $\dashv$     | +        | 1   |                 | 116        | +        | - -     | ╁          | Н               | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 17                | <del>                                     </del> | +        | $\vdash\vdash$                                   | ++                 | $\dashv$ | $\vdash$   | 67        | $\vdash$     | $\dashv$ | +        | +  | $\vdash \vdash$     | $\dashv$     | +        | 1   | <b>—</b>        | 117        | +        | +       | +-         | Н               | -        | $\dashv$  | $\dashv$ | $\dashv$ |
| 18                |  | $\dashv$ | $\vdash$   | ++                 | ┨        | $\vdash$   | 68        | $\vdash$     | $\dashv$ | +        | +  | $\vdash$            | $\dashv$     | _        | 1   |                 | 118        | +        | +       | +          | Н               | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 19                |  | +        | <del>                                     </del> | ++                 | ٦.       | -  | 69        | $\dashv$     | _        | +        | $\vdash$   | $\vdash$            | +            | +        | -   |                 | 119        | +        | +       | +          | H               | $\dashv$ | $\dashv$  | $\dashv$ | _        |
| 20                |  | $\dashv$ | $\vdash$   | ++                 | ٦.       | -  | 70        | $\dashv$     | 十        | $\dashv$ | $\vdash$   |                     | 十            | _        | 1.  |                 | 120        | $^{+}$   | +       | +          | H               | $\dashv$ | $\dashv$  | $\dashv$ |          |
| 21                |  | $\dashv$ | $\vdash$   | +                  | ٦.       | -  | 71        | $\dashv$     | $\dashv$ | ┰        | T  | H                   | 十            | $\top$   | 17. |                 | 121        | $\dashv$ | $\top$  | +          | $\vdash$        |          | $\dashv$  | $\dashv$ |          |
| 22                |  |          |  | 11                 |          |  | 72        | $\dashv$     |          |          | ╁┈   |                     | $\dashv$     | $\dashv$ | 1   |                 | 122        | 十        | +       |            |                 |          | $\dashv$  | $\dashv$ |          |
| 23                |  |          |  | 17                 | 7        |  | 73        | $\dashv$     | $\dashv$ |          | $\top$   |                     | 7            |          | 1   |                 | 123        | 十        | 1       | T          | П               | T        | $\dashv$  | 一        | -        |
| 24                |  |          |  | $\top$             | ┪.       |  | 74        | $\Box$       | $\dashv$ | 1        | T  |                     | 寸            | _        | 1   |                 | 124        |          | $\top$  |            | П               |          | _         | _        | _        |
| 25                |  |          |  |                    | 7        |  | 75        |              |          |          | T  | П                   | $\neg$       | $\top$   | Š.  |                 | 125        | $\top$   |         | T          | П               | $\neg$   | $\dashv$  | 寸        | _        |
| 26                |  |          |  |                    | ヿ゙       |  | 76        |              |          | $\top$   | $\top$   | П                   | ヿ            | $\neg$   | 1   |                 | 126        |          | $\top$  | $\vdash$   | П               |          | $\neg$    | $\dashv$ |          |
| 27                |  | $\top$   | П  | $\top$             | 7        |  | 77        |              |          |          | 1  | П                   | ヿ            |          | 1   |                 | 127        |          | 1       | T          | П               |          | $\exists$ | ヿ        | $\neg$   |
| 28                |  |          |  | $\top$             | 7        |  | 78        |              |          |          | $\vdash$   | П                   | $\neg$       | 1        | 1   | $\Box$          | 128        |          | 1       | 1          |                 | $\Box$   | $\neg$    | ヿ        |          |
| 29                |  |          |  | $\Box$             |          |  | 79        |              |          |          |  |                     |              |          | ]   |                 | 129        |          |         |            |                 |          | $\neg$    | $\neg$   |          |
| 30                |  |          |  | $\perp \perp$      |          |  | 80        |              |          |          |  |                     |              |          | ]   |                 | 130        |          |         |            |                 |          |           |          |          |
| 31                |  | $\bot$   |  | $\perp \perp$      |          |  | 81        |              |          |          |  |                     |              |          | ]   |                 | 131        |          |         |            |                 |          |           |          |          |
| 32                |  |          |  |                    |          |  | 82        |              |          |          |  |                     |              |          |     |                 | 132        |          |         |            |                 |          |           |          |          |
| 33                |  | Щ.       | $oxed{oxed}$                                     | $\bot \bot$        | 4        |  | 83        | $\sqcup$     | $\bot$   | $\bot$   | _  | Ц                   | $\perp$      | $\perp$  |     | $\perp$         | 133        | $\perp$  | $\perp$ | $\perp$    | Ш               |          | $\perp$   | $\perp$  |          |
| 34                |  | $\bot$   | $\sqcup \!\!\! \perp$                            | +                  | 4        | Ш  | 84        | Ц            | $\perp$  |          | _  | Ц                   | _[           | $\perp$  | 1.  | Ш               | 134        |          | 4-      | _          | Ш               |          | $\perp$   | _[       |          |
| 35                |  | $\dashv$ | oxdot  | $\perp \perp$      | _        |  | 85        | $\sqcup$     | $\bot$   | - -      | _  | $\sqcup$            | _            |          | ١.  | $\sqcup$        | 135        | $\bot$   | _       | _          | Ш               | $\Box$   |           |          | _        |
| 36                |  | $\perp$  | oxdot  | $\perp \perp$      | _        | $\sqcup$   | 86        | $\Box$       | _        | $\bot$   | $\perp$  | Ц                   | 4            |          | 1   | $oxed{oxed}$    | 136        |          | $\perp$ | lacksquare | Ш               |          |           |          |          |
| 37                | +++  |          | -  | ++                 | 4        | Щ  | 87        | $\Box$       | $\perp$  |          | $ldsymbol{oxed}$                                 | $\sqcup$            | _            |          | -   | igsquare        | 137        | _        | 4-      | 1_         | Ш               | _        | _         | _        | _        |
| 38                |  | 4        | $\vdash$   | 44                 | -        | $\sqcup$   | 88        | $\sqcup$     | 4        | $\perp$  | <del>                                     </del> | $\sqcup$            | _            |          | 1   | <u> </u>        | 138        |          | _       | _          | Ш               | _        | _         | _        | Ц        |
| <u> </u>          | +  |          | $\vdash \vdash$                                  | ++                 |          | $\vdash \vdash$                                  | 89        | $\perp$      | +        | +        | ╄  | $\sqcup$            | $\perp$      | $\perp$  | 1   |                 | 139        | _        | $\perp$ |            | Ш               | ļ        |           | _        | 4        |
| 40                | +  |          |  |                    |          | $\vdash \vdash \vdash$                           | 90        | $\dashv$     | $\dashv$ | -        | $\vdash$   | $\vdash \downarrow$ | 4            |          | 1   | $\vdash$        | 140        | _        | 4.      | <b>.</b>   | Н               | _        | _         | 4        | _        |
| 41                | +  |          | - -  | + +-               |          | $\vdash \dashv$                                  | 91        | $\dashv$     | -        | -        | $\vdash$   | $\vdash \downarrow$ | 4            |          | ž   | $\vdash \vdash$ | 141        | +        | +       |            | $\vdash$        |          | _         | 4        |          |
| 42                |  | -        | ⊢-   | ++                 | 4        | <b>  </b>  | 92        | $\dashv$     | +        |          |  | $\vdash \downarrow$ | $\dashv$     |          | 4   | $\vdash \vdash$ | 142        | +        | +       | ╄          | $\sqcup$        | $\dashv$ |           | 4        |          |
| 43                | +  |          | $\vdash$   | ++                 | 4        | ┝─┤  | 93        | $\dashv$     | +        |          | $\vdash$   | $\vdash \vdash$     | +            | +        | -   |                 | 143        |          | +-      | ╁          | $\vdash \vdash$ | $\dashv$ | $\dashv$  | $\dashv$ | 4        |
| 44                | ++-+   |          | $\vdash \vdash$                                  | ++                 | -        | $\vdash \vdash \vdash$                           | 94<br>95  | $\dashv$     | +        |          | -  | $\vdash \vdash$     | +            | +        | 1   | $\vdash$        | 144        | -        | +       | ┼          | $\vdash$        | $\dashv$ | $\dashv$  | $\dashv$ | _        |
| 45                | ++-+   | +        | $\vdash \vdash$                                  | ++                 | -        |  | 96        | $\dashv$     | +        | - -      | $\vdash$   | $\vdash \vdash$     | $\dashv$     |          |     | $\vdash$        | 145        |          | +       | ₩          | $\vdash \vdash$ | $\dashv$ | $\dashv$  | $\dashv$ | _        |
| 46                | ++++   |          | $\vdash \vdash$                                  | ╁┼                 | -{       | ┝─┤  | 96        | $\dashv$     | +        |          | ⊢⊦   | $\vdash$            | +            | +        | 4,  | $\vdash \vdash$ | 146        | -        | +       | ┼          | $\vdash$        | -        | $\dashv$  | $\dashv$ | -        |
| 48                | +  |          | $\vdash$   | ++                 |          | $\vdash$   | 98        | $\dashv$     | +        |          | $\vdash$   | $\vdash$            | +            |          | 1   |                 | 147<br>148 |          | +       | -          |                 | -        | $\dashv$  | $\dashv$ |          |
|                   | <del>/                                    </del> | $\dashv$ | $\vdash\vdash$                                   | ++                 | $\dashv$ | <del>                                     </del> | 99        | $\dashv$     | +        | - -      | $\vdash$   | $\vdash \vdash$     | +            | +        | -   | $\vdash$        | 148        |          | +       | $\vdash$   | H               |          | $\dashv$  | $\dashv$ | -        |
| 50                | <u>:</u>   | +        | $\vdash$   | +                  | $\dashv$ | $\vdash \vdash \vdash$                           | 100       | $\dashv$     |          | +-       | $\vdash$   | $\vdash \vdash$     | +            | +-       | 1   | $\vdash$        | 150        | +        | +       | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |
| 30                | ᠴ᠋   |          |  | للل                |          | ш  | IUU       |              |          |          |  | Щ                   |              | L        | J   | لـــــا         | 100        |          |         |            | لــــا          |          |           |          |          |